

Engineering Process of Windows 2000

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Outline

- Organization
- Process
 - Cycles
 - Issue Tracking
- Ship Criteria
 - Tester's Role
- Key Initiatives
 - Compatibility
 - Reliability
 - Deployment

Organization

■ Core Feature Teams

- Program Managers
- Developers
- Testers

■ Central Services

- Release Management
- Build/UA/LOC

■ Product Marketing

■ Technology Areas

- Base OS
- Networking
- Server
- Client
- Management
- COM+/Web services
- Other

Roles played by the core teams

PM	Specifications	Project Management		Sign off
DEV	Design spec	Implementation	Fix Issues	
TEST	Test Plans Release Criteria	Test Automation	Regression Test	

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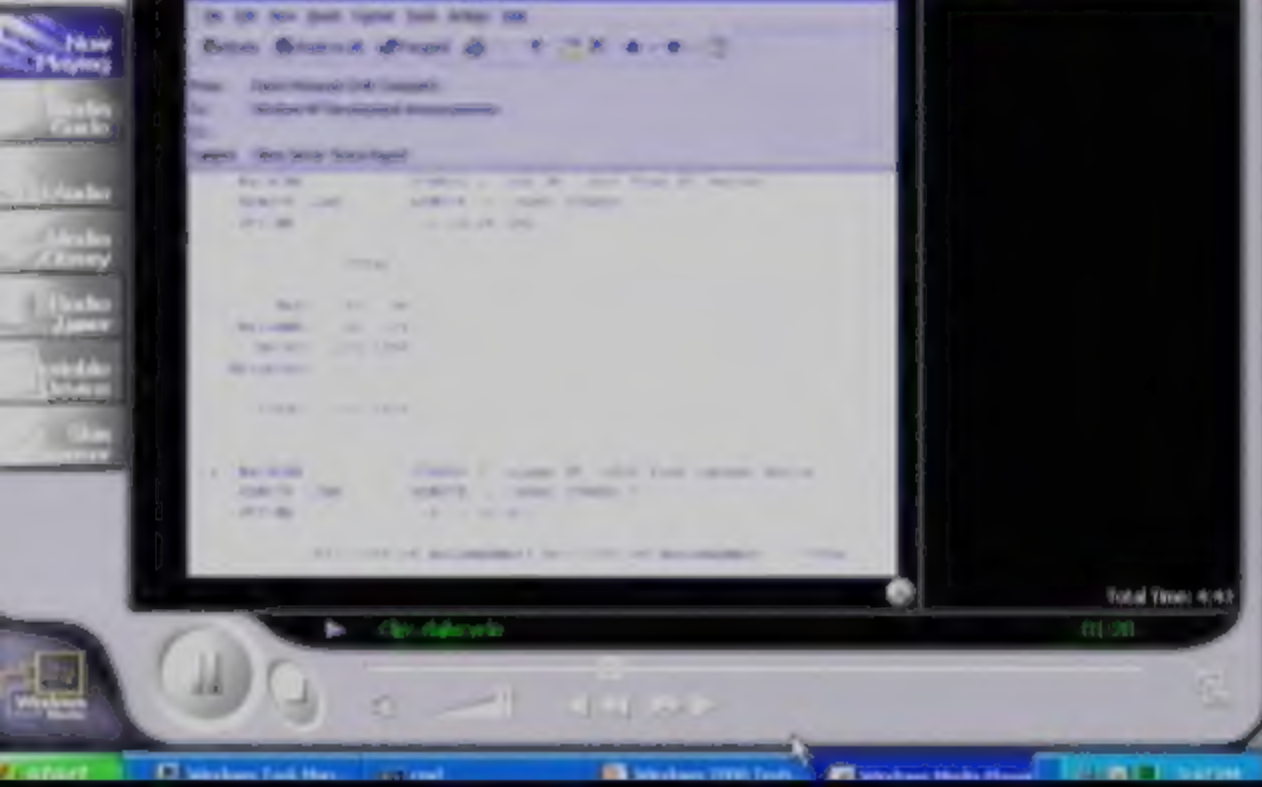
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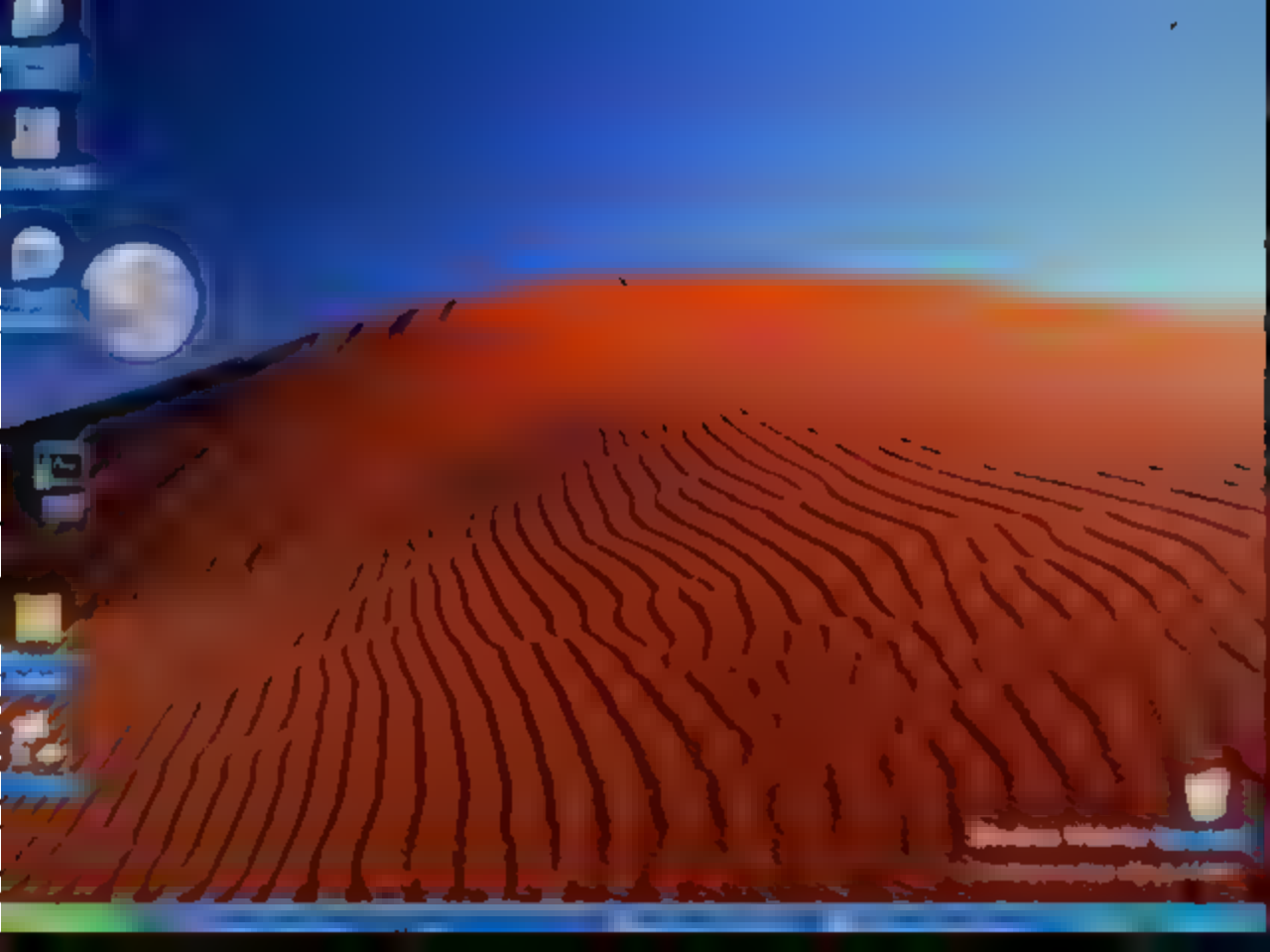
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	Test Plans Release Criteria	Test Automation	Regression Test	
DEV				
TEST				

Daily Lifecycle Video







Test Cycles

■ Daily

- War Room meeting
- Key Indicators tracked

■ Weekly

- IDW
- IDS
- Automation Test Pass

■ RC/Beta

- System Level Tests
- Customer Feedback Review
- Formal Signoff

Incremental Improvement

User Base

Quality

RTM

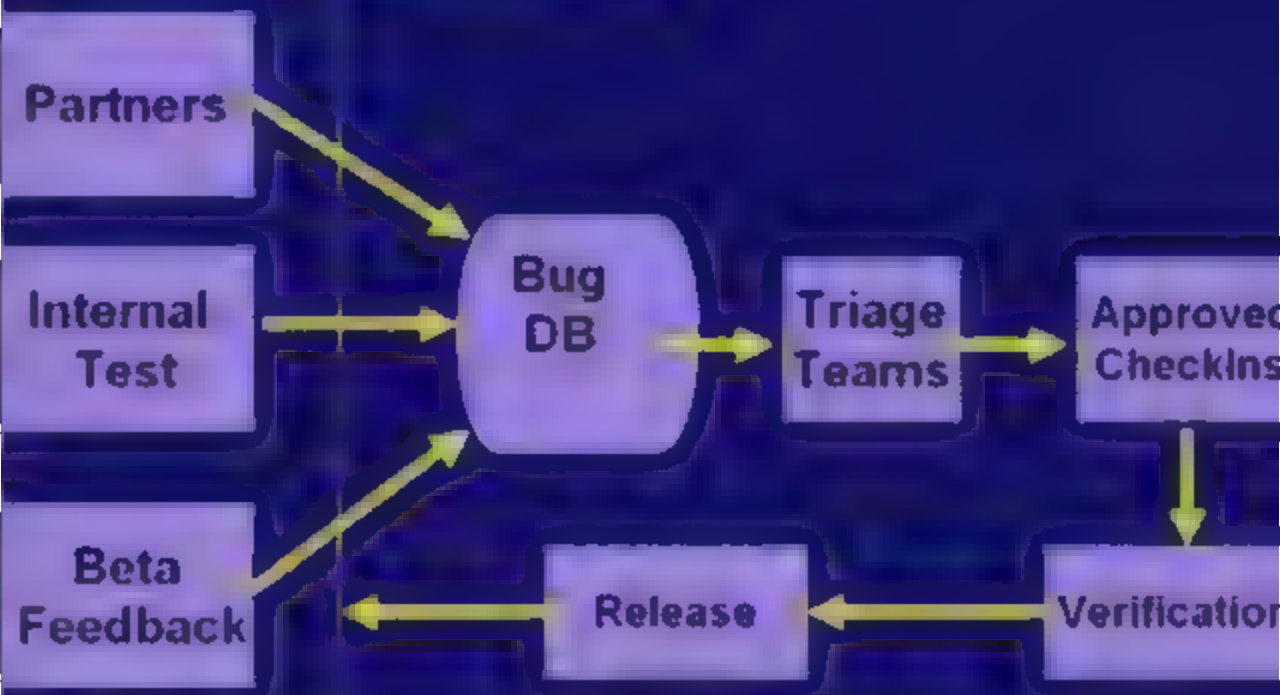
RC/Beta Builds

Weekly Builds

Daily Builds



Issue Tracking



Ship Criteria

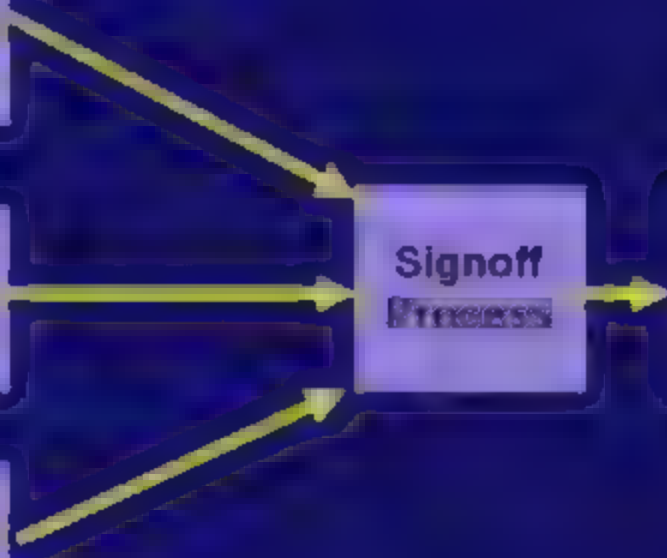
Internal Test

Partners

Signoff

RTM

Customers



Test Team's Role

- Customer Advocate

- ISV : API / Interface level (SDK)

- IHV/OEM : WHQL Logo Test Kits (DDK)

- Admin, End User Experience

- Component level

- System level

- Compatibility, Reliability, Security

- Globalization, Localization, Accessibility

- Setup, Configuration, Upgrade matrix

- Manageability, Performance, Scalability

- Deployment, Integration, Interoperation

Focus on Compatibility

- **Hardware Compatibility**
 - 10,000 devices supported
 - 5000 OEM systems supported
 - 100+ hardware vendors shipping systems with Win2000 at launch
- **Software Compatibility**
 - 7000+ applications supported
 - Internal test focused on productivity and server applications
 - Worked with customers and partners to test line-of-business applications

Focus On Reliability

- Load profile of key services
- Simulation of peak loads
 - Recovery from fault injections
- MTTB, MTTR, Availability
- Driver Verifier, Prefix, leak monitoring
- Internal, ITG and Customer data
 - >5000 customer site servers tracked
 - Good correlation with internal data

Focus on Deployments

- Staged deployment plans for key services
- End to End scenarios deployed
- Windows2000 team self hosted for 2+ years
- JDP program : Live Deployments
- Microsoft deployed 70,000 desktops and 2000+ servers before launch
- Several DotComs went live

Where do you



want to go

today?

Microsoft